

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) Method for operating a system according to TDMA (Time Division Multiple Access) with a multiplicity of wireless sensors and/or actuators as nodes (S.1...S.n) and a base station (BS), said system being installed in a machine or installation, such as industrial robots or an automated manufacturing or production unit, whereby cyclical TDMA data transmission blocks are transmitted and each TDMA data transmission block is composed of consecutive time slots, whereby each time slot is allocated to a specific node, ~~characterized in that~~ wherein the uplink signals (UL.1...UL.n) can be transmitted from the different nodes (S.1...S.n) to the base station (BS) simultaneously on two, three or more different frequencies (f1, f2, f3), whereas the downlink signals (DL) are transmitted from the base station (BSA) to the different nodes (S.1...S.n) on only one frequency, which differs from the uplink frequencies, whereby the time slots and the different uplink frequencies of the different nodes are defined once and are thereafter retained.

2. (Currently Amended) Method according to Claim 1, ~~characterized in that~~ wherein the different uplink frequencies of the different sensors and/or actuators (S.1...S.n) and the downlink frequency are defined in such a way that interferences are avoided as far as possible.

3. (Currently Amended) Method according to Claim 1 ~~and/or 2~~,
~~characterized in that~~ wherein the frequency hopping method is used.

4. (Currently Amended) System with a multiplicity of wireless sensors and/or actuators as nodes (S.1...S.n) and a base station (BS), which is installed in a machine or installation, such as industrial robots or an automated manufacturing or production unit, whereby cyclical TDMA data transmission blocks are transmitted between the base station and the nodes and between the nodes and the base station, ~~characterized in that~~ wherein the uplink signals (UL.1...UL.n) can be transmitted from the different nodes (S.1...S.n) to the base station (BS) simultaneously on two, three or more different frequencies (f1, f2, f3), whereas the downlink signals (DL) are transmitted from the base station (BSA) to the different nodes (S.1...S.n) on only one frequency, which differs from the uplink frequencies, whereby the time slots and the different uplink frequencies of the different nodes are defined once and are thereafter retained.